

Appl. No. 09/813,916  
Reply to Office Action of December 28, 2004

Attorney Docket: P66515US0

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended): A radio system that divides a certain region into two or more cells and installs a base station at about the center of each cell to carry out communication between the base station and many fixed terminal stations in the cell in which the base station is installed, wherein

each base station uses plural frequencies in each cell, uses the same combination of the frequencies as adjacent base stations, and is divided into three ~~two~~ or more sectors, each of which is provided with an antenna different in directivity on a horizontal plane, the antennas are placed in a manner so that the antenna beams cover all the directions on the horizontal plane as a whole, and all the antennas using the same frequency and the same polarized wave are arranged to face in about the same direction in all cells.

Claim 2 (Cancelled)

Claim 3 (Previously Presented): The radio system according to claim 1, wherein said radio system, which installs base stations to offer service in almost all the parts of the certain region using only one type of polarized wave, further installs base stations using another type of polarized wave in the existing service area.

Claim 4 (Cancelled)

Claim 5 (Previously Presented): The radio system according to claim 1, wherein the number of sectors at each base station and assignment of frequencies used and polarized waves correspond to those at adjacent base stations.

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Claim 6 (Previously Presented): The radio system according to claim 1, wherein said radio system uses a TDD system.

Claims 7 - 11 (Cancelled)

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